

# Instructions for simulation

## 1. Files

This a list of some files in the directory and their functions.

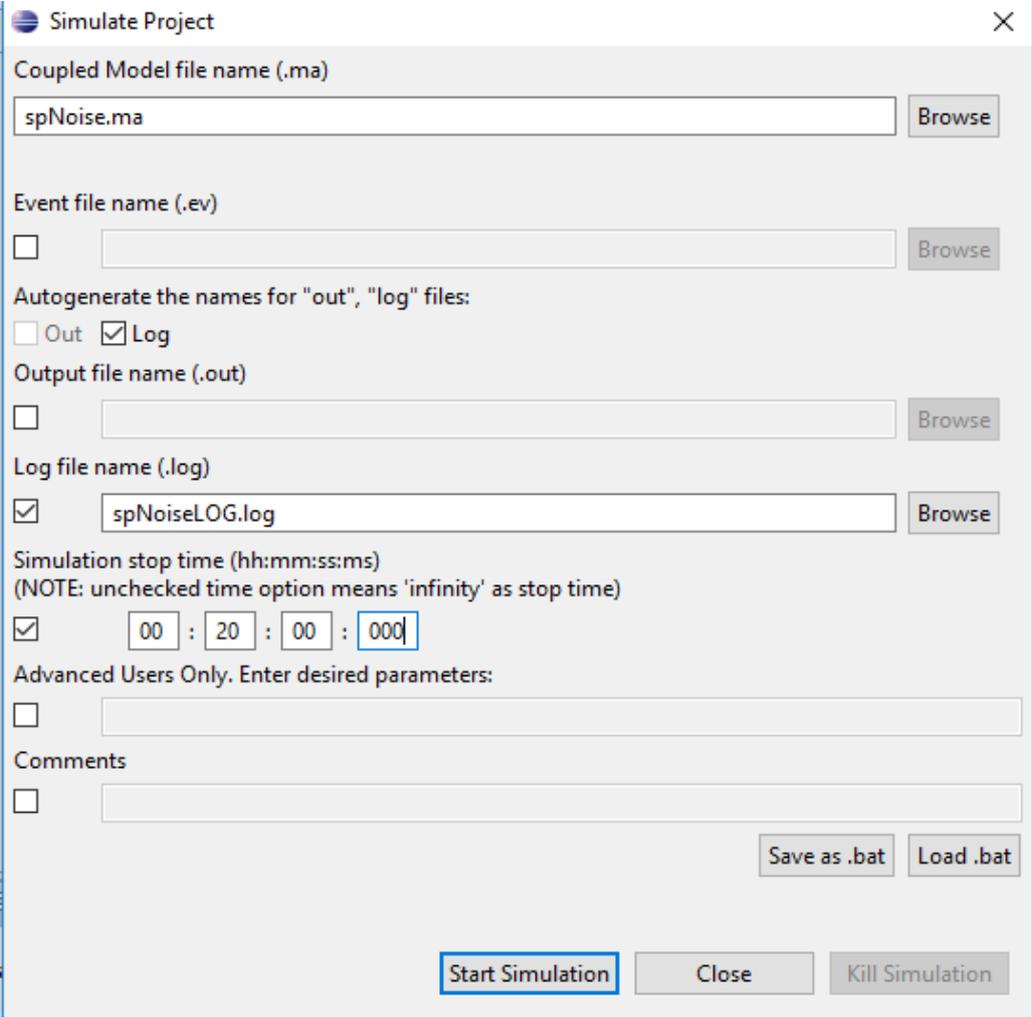
spNoise.pal: it indicates colours associated to two states.

spNoiseLOG.log: an outcome of an initial simulation with noiseless image.

spNoise.ma: it is the configuration of whole project, which includes rules, definitions, and initial values.

spNoise.val: initial values. You can set a specific value to every cell.

## 2. Simulation guides



The screenshot shows a dialog box titled "Simulate Project" with a close button (X) in the top right corner. The dialog contains the following fields and controls:

- Coupled Model file name (.ma):** A text input field containing "spNoise.ma" and a "Browse" button to its right.
- Event file name (.ev):** A checkbox followed by an empty text input field and a "Browse" button.
- Autogenerate the names for "out", "log" files:** Two checkboxes, "Out" (unchecked) and "Log" (checked).
- Output file name (.out):** A checkbox followed by an empty text input field and a "Browse" button.
- Log file name (.log):** A checked checkbox followed by a text input field containing "spNoiseLOG.log" and a "Browse" button.
- Simulation stop time (hh:mm:ss:ms):** A checked checkbox followed by four input fields containing "00", "20", "00", and "000" respectively, separated by colons. A note below reads: "(NOTE: unchecked time option means 'infinity' as stop time)".
- Advanced Users Only. Enter desired parameters:** A checkbox followed by an empty text input field.
- Comments:** A checkbox followed by an empty text input field.
- At the bottom right, there are two buttons: "Save as .bat" and "Load .bat".
- At the bottom center, there are three buttons: "Start Simulation" (highlighted with a blue border), "Close", and "Kill Simulation".

This graph shows the setting of the simulation. Select only log file, uncheck output file.

Drawlog

Coupled model file name (.ma)

Log file name(.log)

Generate name for output (".drw") file  
 Output file name (.drw)

Cellular model name

stop time (hh:mm:ss:ms)  
 (NOTE: unchecked time option means 'infinity' as stop time)  
  :  :  :

Enter the width

Enter the number of digits after the decimal

Number of slice (s) when used as 3D Models

Do not print the zero value

Open Drawlog to create draw-file. This draw file is used as input in CD++ modeler and in web viewer.

Cell-DEVS animation

Show 2D Only

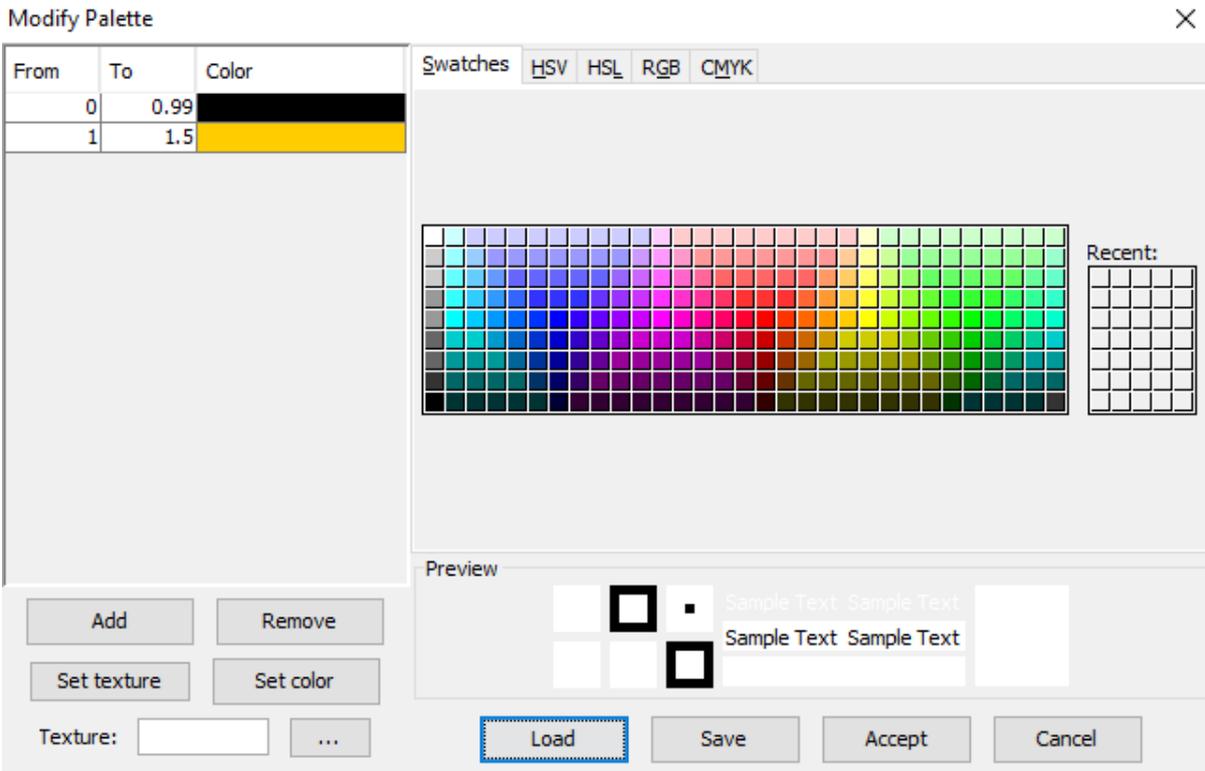
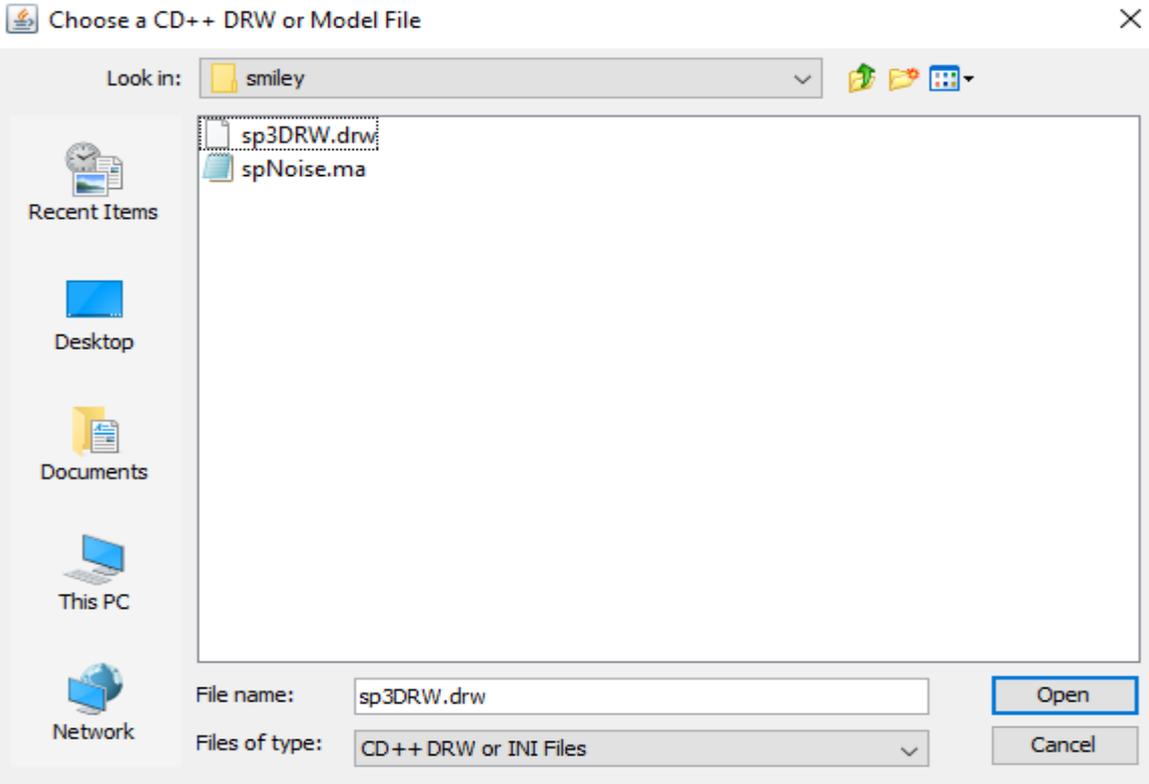
Available Selected

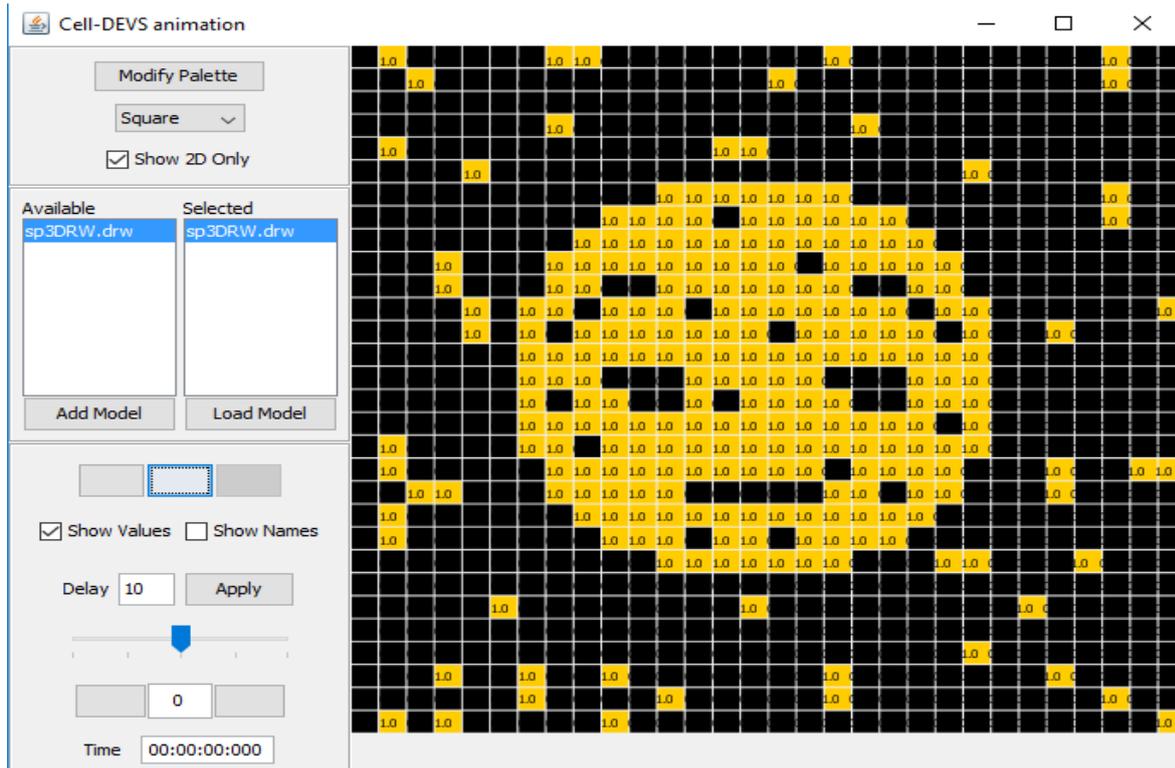
Show Values  Show Names

Delay

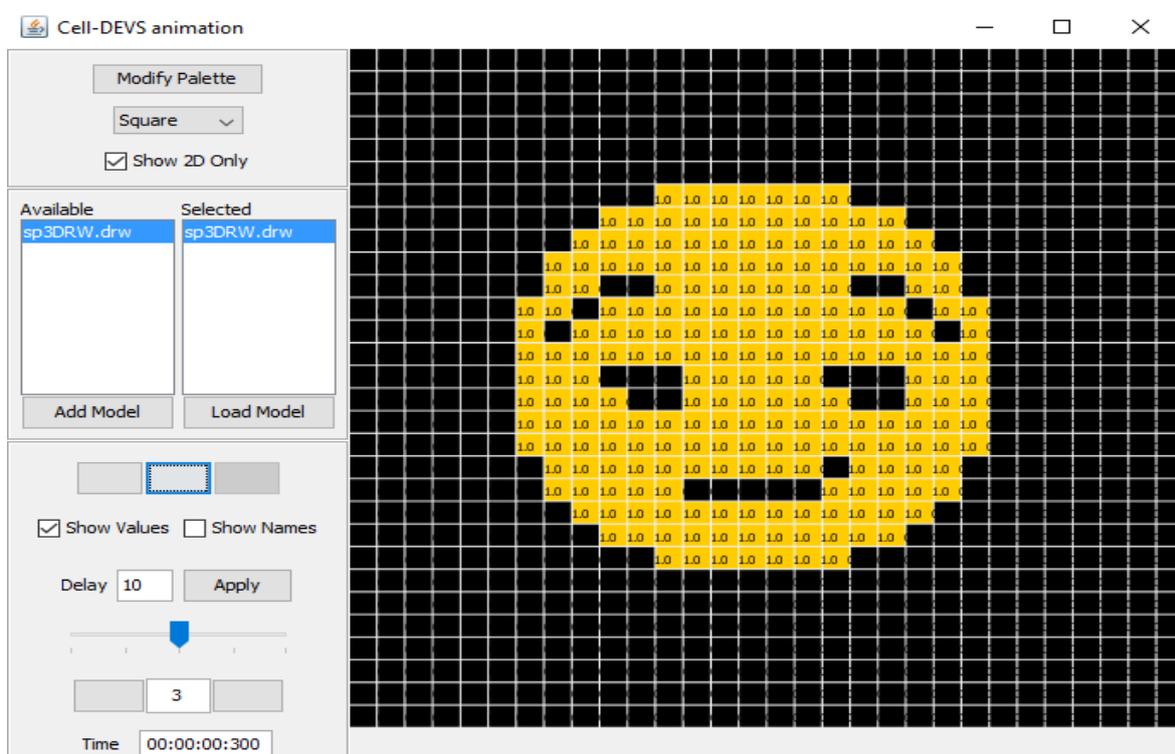
Time

Load draw file by clicking on **Add Model** and load .pal or create it by selecting different colour for different range.





### 3. Outcome



As you can see all the noise in previous image has been removed. You can also simulate it step by step to make the process clearer.